P	СР		Removed ECAC+			CAC+				
AON	/ 119.3		Full Rolling ASM/ATFCM Process and ASM Information Sharing							
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

The full rolling ASM/ATFCM process focuses on improving airspace planning. It shall ensure a continuous, seamless and reiterative airspace planning and allocation based on airspace requests at any time period within strategic (level 1), pre-tactical (level 2) and tactical (level 3) ASM levels; the process will also support the deployment of airspace configurations (as described in objective AOM19.4). It will result in a rolling process, supporting the enhancement of the daily Network Operations Plan (NOP). This will allow airspace users to better benefit from changes in airspace structures closer to the event.

This rolling process will be supported by the sharing of civil-military airspace data and by continuously updating airspace reservation (ARES) information with demand information among the authorized operational stakeholders and Approved Agencies in order to enhance the coordination of cross-border operations and/or cross-border areas, and to optimise the whole network operations based on the mature and most correct information.

ASM information sharing addresses the required system support improvements able to ensure a seamless and consistent data flow and their management in the frame of the enhanced collaborative decision making (CDM) process. It includes requirements aiming to improve the notification to airspace users based on automated data exchange processes.

ASM procedures and data-sharing shall enable dynamic management of airspace both in a free and fixed route environment.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

Applicability Area(s) & Timescale(s)

Applicability Area			
Timescales:	From:	Ву:	Applicable to:
Initial operational capability	01/01/2014		Applicability Area
Full operational capability		01/01/2022	Applicability Area

References

European ATM Master Plan

[AOM-0202]	[AOM-0202]-Enhanced Real-time Civil-Military Coordination of Airspace Utilisation							
Enablers -	AAMS-06a	AAMS-08 AOM19.5	AAMS-09 AOM19.5	AAMS-10a AOM13.1	AAMS-15	AIMS-06	AIMS-21	AIMS-22
	PRO-184							
[AOM-0202-	A]-Automated S	Support for strat	egic, pre-tactica	al and tactical C	ivil-Military Coo	rdination in Airs	pace Managen	nent (ASM).
Enablers -	AAMS-06b AOM19.5	AAMS-09a AOM19.5	AAMS-11	AIMS-06	ER APP ATC 77 AOM19.4, AOM19.5	MIL-0502	NIMS-42	PRO-011
	PRO-024	SWIM-APS- 02a	SWIM-APS- 03a	SWIM-INFR- 05a	SWIM-NET- 01a			
	Enablers -	Enablers - AAMS-06a PRO-184 [AOM-0202-A]-Automated S Enablers - AAMS-06b AOM19.5	Enablers - AAMS-06a AAMS-08	Enablers - AAMS-06a AAMS-08 AOM19.5 AOM19.5 PRO-184 [AOM-0202-A]-Automated Support for strategic, pre-tactical AAMS-09a AOM19.5 AOM19.5 AOM19.5 Enablers - AAMS-06b AOM19.5 SWIM-APS- SWIM-APS-	Enablers - AAMS-06a AAMS-08 AOM19.5 AAMS-10a AOM19.5 AOM19.5 AOM19.5 AOM13.1 PRO-184 [AOM-0202-A]-Automated Support for strategic, pre-tactical and tactical Company of the company of t	Enablers - AAMS-06a AAMS-08 AOM19.5 AAMS-09 AOM19.5 AAMS-10a AOM13.1 AAMS-15 PRO-184 IAOM-0202-A]-Automated Support for strategic, pre-tactical and tactical Civil-Military Cool Enablers - AAMS-06b AOM19.5 AAMS-09a AOM19.5 AAMS-11 AIMS-06 ER APP ATC 77 AOM19.4, AOM19.5 PRO-024 SWIM-APS- SWIM-APS- SWIM-INFR- SWIM-INFR-	Enablers - AAMS-06a AAMS-08 AOM19.5 AAMS-09 AOM19.5 AAMS-10a AOM13.1 AAMS-15 AIMS-06 PRO-184 IAOM-0202-A]-Automated Support for strategic, pre-tactical and tactical Civil-Military Coordination in Airs Enablers - AAMS-06b AOM19.5 AAMS-09a AOM19.5 AAMS-11 AIMS-06 ER APP ATC 77 AOM19.4, AOM19.5 MIL-0502 PRO-024 SWIM-APS- SWIM-APS- SWIM-INFR- SWIM-INFR- SWIM-INET-	Enablers - AAMS-06a AAMS-08 AOM19.5 AOM19.5 AOM19.5 AOM13.1 AAMS-15 AIMS-06 AIMS-21 [AOM-0202-A]-Automated Support for strategic, pre-tactical and tactical Civil-Military Coordination in Airspace Managem Enablers - AAMS-06b AOM19.5 AOM19.5 AOM19.5 AOM19.5 AOM19.5 SWIM-APS- SWIM-INFR- SWIM-NET-

Lagandi	WXYZ-001	Covered by SLoA(s) in	WXYZ-002	Covered by SLoA(s) in another objective	WXYZ-	Not covered in the
Legend:	VV A Y Z-00 I	this objective	ZZZ	Objective covering the enabler	003	Implementation Plan

Applicable legislation

- Regulation (EC) No 2150/2005 of 23 December 2005 on Implementation and Application of the Flexible Use of Airspace
- Regulation (EU) No 716/2014 on the establishment of the Pilot Common Project

Essential Operational Changes

- none -

SESAR Solution

#31 - Variable profile military reserved areas and enhanced (further automated) civil-military collaboration

ICAO GANP - ASBUs

Implementation Plan Edition 2022

- none -				
Deployment P	rogramme			
- none -				

Full Rolling ASM/ATFCM Process and ASM Information Sharing

European Plan for Aviation Safety

- none -

Operating Environments

AOM19.3

En-Route Network

Terminal Airspace

Stakeholder Lines of Action (SLoAs)

Title	From	Ву
Adapt ASM systems to support a full rolling ASM/ATFCM process	01/01/2014	01/01/2022
Implement procedures and processes for a full rolling ASM/ATFCM process	01/01/2014	01/01/2022
Adapt airspace users systems to improve ASM notification process	01/01/2014	01/01/2022
Implement procedures in support of an improved ASM notification process	01/01/2014	01/01/2022
Adapt NM systems to support a full rolling ASM/ATFCM process	01/01/2014	01/01/2022
Implement procedures and processes for a full rolling ASM/ATFCM process	01/01/2014	01/01/2022
Improve ASM notification process	01/01/2014	01/01/2022
	Adapt ASM systems to support a full rolling ASM/ATFCM process Implement procedures and processes for a full rolling ASM/ATFCM process Adapt airspace users systems to improve ASM notification process Implement procedures in support of an improved ASM notification process Adapt NM systems to support a full rolling ASM/ATFCM process Implement procedures and processes for a full rolling ASM/ATFCM process	Adapt ASM systems to support a full rolling ASM/ATFCM process 01/01/2014 Implement procedures and processes for a full rolling ASM/ATFCM process 01/01/2014 Adapt airspace users systems to improve ASM notification process 01/01/2014 Implement procedures in support of an improved ASM notification process 01/01/2014 Adapt NM systems to support a full rolling ASM/ATFCM process 01/01/2014 Implement procedures and processes for a full rolling ASM/ATFCM process 01/01/2014

Description of finalised and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/working/depl/essip_objectives

Expected Performance Benefits

Improved through better co-ordination of civil and military airspace needs at the European Network level. Potential Safety:

gains through more efficient airspace allocation and better knowledge of traffic environment, common situational

awareness, and some enhancement through reduction in controller workload.

Increased through better utilization of airspace resources within and across airspace boundaries leading to reduction of Capacity:

flight delays.

Operational Efficiency:

Increased through the availability of more optimum routes/trajectories allowing lower fuel burn.

Cost Efficiency:

Environment:

Emissions reduced through the use of more optimum routes/trajectories.

Security:

Detailed SLoA Descriptions

Dotaliou OLON Docomptionio					
AOM19.3-ASP01	Adapt ASM systems to support a full rolling ASM/ATFCM process	From: 01/01/2014	By: 01/01/2022		
Action by:	ANS Providers				
Description & purpose:	R purpose: Implement the following actions supporting a full rolling ASM/ATFM process: - System improvements related to new AUP template; - System changes for a full management of airspace structure via AUP/UUP; - System changes for initial CDM				

AOM19.3	Full Rolling ASM/ATFCM Process and A	ASM Information	Sharing				
Supporting material(s):	EUROCONTROL - NOP Portal User Guide - Edition 21.5-119						
apporting material(s).	Url: https://www.eurocontrol.int/sites/default/files/content/documents/nm/network-operations/user-guides/nop-portal-						
	user-guide-current.pdf		garaco,op porta.				
	EUROCONTROL - European Route Network Improvement Plan (ERN Guidelines for Airspace Management - 5.5 / 11/2017	P) Part 3 - Airspace M	lanagement Handbook -				
	Url: https://www.eurocontrol.int/publication/european-route-network-im	provement-plan-ernip	-part-3				
	EUROCONTROL - LARA (Local and sub-Regional Airspace Management Support System)						
	Url: https://www.eurocontrol.int/software/local-and-sub-regional-airspace-management-support-system						
	EUROCONTROL - Advanced FUA Concept - Edition 1.0						
	Url: http://www.eurocontrol.int/sites/default/files/publication/files/advan EUROCONTROL - SPEC-112 - EUROCONTROL Specification for the - Edition 1.1 / 01/2009	•	<u> </u>				
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-ap	oplication-flexible-use-	airspace-fua				
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	EUROCONTROL - SPEC 166 - EUROCONTROL Specification for Airspace Management (ASM) Support System Requirements supporting the ASM processes at local and FAB level Part I - Baseline Requirements - Edition 1.0 / 09/2017						
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-airspace-management-asm-support-system-requirements						
TM Master Plan lationship:	[AAMS-11]-ASM support systems enhanced to exchange real-time airs	space status updates					
nalisation criteria:	1 - ASM systems have been adapted.	F	D .				
AOM19.3-ASP02	Implement procedures and processes for a full rolling ASM/ATFCM process	From: 01/01/2014	By: 01/01/2022				
ction by:	ANS Providers						
escription & purpose:	Develop and implement the following processes supporting a full rolling - Process for a full management of airspace structure via AUP/UUP; - Process for initial CDM.	g and dynamic ASM/A	TFCM process:				
upporting material(s):	EUROCONTROL - NOP Portal User Guide - Edition 21.5-119						
	Url: https://www.eurocontrol.int/sites/default/files/content/documents/nm/network-operations/user-guides/nop-portal-user-guide-current.pdf						
	EUROCONTROL - European Route Network Improvement Plan (ERNIP) Part 3 - Airspace Management Handbook - Guidelines for Airspace Management - 5.5 / 11/2017						
	Url: https://www.eurocontrol.int/publication/european-route-network-improvement-plan-ernip-part-3						
	EUROCONTROL - Advanced FUA Concept - Edition 1.0						
	Url: http://www.eurocontrol.int/sites/default/files/publication/files/advanced-fua-concept-v1.0-sept-2015.pdf						
	EUROCONTROL - SPEC-112 - EUROCONTROL Specification for the application of the Flexible Use of Airspace (FUA) - Edition 1.1 / 01/2009						
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-application-flexible-use-airspace-fua						
	EUROCONTROL - SPEC-179 - EUROCONTROL Specification for Airspace Management (ASM) Support System Requirements supporting the ASM processes at local and FAB level Part II ASM to ASM Systems Interface Requirements - 1.0 / 01/2020						
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-airspace-management-asm-support-system-requirements						
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	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-airspace-management-asm-support-system-						
	requirements [PRO-011]-ASM Procedures to ensure that the change in airspace availability is promulgated through SWIM and reflected in the NOP						
	[PRO-011]-ASM Procedures to ensure that the change in airspace avareflected in the NOP						
lationship:	[PRO-011]-ASM Procedures to ensure that the change in airspace avareflected in the NOP [PRO-024]-ASM Procedures related to real-time (tactical) ASM level III						
TM Master Plan lationship: nalisation criteria:	[PRO-011]-ASM Procedures to ensure that the change in airspace avareflected in the NOP	information exchange	2				
lationship:	[PRO-011]-ASM Procedures to ensure that the change in airspace avareflected in the NOP [PRO-024]-ASM Procedures related to real-time (tactical) ASM level III						
lationship: nalisation criteria:	[PRO-011]-ASM Procedures to ensure that the change in airspace avareflected in the NOP [PRO-024]-ASM Procedures related to real-time (tactical) ASM level III 1 - Processes have been implemented Adapt airspace users systems to improve ASM notification	information exchange	By:				

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Url: https://www.eurocontrol.int/sites/default/files/content/documents/nm/network-operations/user-guides/nop-portal-						
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ww.eurocontrol.int/sites/default/files/publication/files/advan-	ced-fue-concent-v1 ()-cent-2015 ndf				
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www.eurocontrol.int/publication/eurocontrol-specification-ap	pplication-flexible-use	e-airspace-fua				
TROL - SPEC-179 - EUROCONTROL Specification for Airs tts supporting the ASM processes at local and FAB level Pa tts - 1.0 / 01/2020						
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TROL - SPEC 166 - EUROCONTROL Specification for Airs tts supporting the ASM processes at local and FAB level Pa						
09/2017 Url: https://www.eurocontrol.int/publication/eurocontrol-specification-airspace-management-asm-support-system-requirements						
have been adapted to enable an improved ASM notificatio	n process.					
procedures in support of an improved ASM	From:	By:				
process	01/01/2014	01/01/2022				
Airspace Users						
d implement procedures in support of an improved ASM no	tification process.					
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user-guide-current.pdf EUROCONTROL - European Route Network Improvement Plan (ERNIP) Part 3 - Airspace Management Handbook - Guidelines for Airspace Management - 5.5 / 11/2017 Url : https://www.eurocontrol.int/publication/european-route-network-improvement-plan-ernip-part-3						
Uri : https://www.eurocontrol.int/publication/european-route-network-improvement-plan-ernip-part-3 EUROCONTROL - Advanced FUA Concept - Edition 1.0						
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www.eurocontrol.int/publication/eurocontrol-specification-ails	rspace-management	-asm-support-system-				
res in support of an improved ASM notification process hav	e been implemented					
	From:	Ву:				
systems to support a full rolling ASM/ATFCM process	01/01/2014	01/01/2022				
mentation of new AUP template;	SM/ATFCM process; ned in the ERNIP Par	rt 3 - ASM Handbook);				
	anges supporting rolling AUP; mentation of new AUP template; P for Procedure 3 (ad-hoc allocation - Procedure 3 as defir anges for initial implementation of FUA/EU restriction and F	anges supporting rolling AUP;				

Full Rolling ASM/ATFCM Process and ASM Information Sharing

AOM19.3

AOM19.3 Full Rolling ASM/ATFCM Process and ASM Information Sharing							
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	Requirements supporting the ASM processes at local and FAB level Poly/2017 Url: https://www.eurocontrol.int/publication/eurocontrol-specification-ai	·					
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elationship:	information	<u> </u>					
Finalisation criteria:	1 - NM systems have been adapted .	From:	By:				
AOM19.3-NM02	Implement procedures and processes for a full rolling ASM/ATFCM process	01/01/2014	01/01/2022				
ction by:	NM		·				
			stem and interoperability				
	with local/sub-regional ASM support systems; - Process for a full management of airspace structure AUP/UUP; - Process for initial CDM;	ci Zone (i BZ) iii Nivi 39.	stem and interoperability				
supporting material(s):	with local/sub-regional ASM support systems; - Process for a full management of airspace structure AUP/UUP;	CI ZOIIC (I BZ) III (W 39.	stem and interoperability				
Supporting material(s):	with local/sub-regional ASM support systems; - Process for a full management of airspace structure AUP/UUP; - Process for initial CDM; - Process relevant to CDM for FRA impact assessment on network.						
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Supporting material(s):	with local/sub-regional ASM support systems; - Process for a full management of airspace structure AUP/UUP; - Process for initial CDM; - Process relevant to CDM for FRA impact assessment on network. EUROCONTROL - NOP Portal User Guide - Edition 21.5-119 Url: https://www.eurocontrol.int/sites/default/files/content/documents/nuser-guide-current.pdf EUROCONTROL - European Route Network Improvement Plan (ERN Guidelines for Airspace Management - 5.5 / 11/2017 Url: https://www.eurocontrol.int/publication/european-route-network-im EUROCONTROL - Advanced FUA Concept - Edition 1.0 Url: http://www.eurocontrol.int/sites/default/files/publication/files/advan EUROCONTROL - SPEC-112 - EUROCONTROL Specification for the - Edition 1.1 / 01/2009 Url: https://www.eurocontrol.int/publication/eurocontrol-specification-appended in the specification for Airs EUROCONTROL - SPEC-179 - EUROCONTROL Specification for Airs EUROCONTROL - SPEC-179 - EUROCONTROL Specification for Airs	Im/network-operations/usin/net	ser-guides/nop-portal- nagement Handbook - art-3 ept-2015.pdf ole Use of Airspace (FUA) rspace-fua M) Support System ems Interface				
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AOM19.3	Full Rolling ASM/ATFCM Process and ASM Information Sharing
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Action by:	NM
Description & purpose:	The following actions supporting an improved ASM notification process to be taken by the Network Manager: - Improvements to the European AUP/UUP and updates (EAUP/EUUP) including: . Harmonisation of areas notifications; . Harmonise cross border CDRs (Conditional Routes) notifications. - Graphical display of AUP/UUP on NOP Portal.
Supporting material(s):	EUROCONTROL - NOP Portal User Guide - Edition 21.5-119
	Url: https://www.eurocontrol.int/sites/default/files/content/documents/nm/network-operations/user-guides/nop-portal-user-guide-current.pdf
	EUROCONTROL - European Route Network Improvement Plan (ERNIP) Part 3 - Airspace Management Handbook - Guidelines for Airspace Management - 5.5 / 11/2017
	Url: https://www.eurocontrol.int/publication/european-route-network-improvement-plan-ernip-part-3
	EUROCONTROL - Advanced FUA Concept - Edition 1.0
	Url: http://www.eurocontrol.int/sites/default/files/publication/files/advanced-fua-concept-v1.0-sept-2015.pdf
	EUROCONTROL - SPEC-179 - EUROCONTROL Specification for Airspace Management (ASM) Support System Requirements supporting the ASM processes at local and FAB level Part II ASM to ASM Systems Interface Requirements - 1.0 / 01/2020
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-airspace-management-asm-support-system-requirements
	EUROCONTROL - SPEC 166 - EUROCONTROL Specification for Airspace Management (ASM) Support System Requirements supporting the ASM processes at local and FAB level Part I - Baseline Requirements - Edition 1.0 / 09/2017
	Url: https://www.eurocontrol.int/publication/eurocontrol-specification-airspace-management-asm-support-system-requirements
Finalisation criteria:	1 - Processes have been implemented by NM.